

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number  
WO 2005/068445 A3

(51) International Patent Classification<sup>7</sup>: C07D 285/12, 271/10, 249/12, 257/04, 237/14, 241/18, 239/36, 273/04, 233/72

(74) Common Representative: SYNGENTA PARTICIPATIONS AG; Intellectual Property, P.O. Box, CH-4002 Basel (CH).

(21) International Application Number:  
PCT/EP2005/000094

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:  
00023/04 8 January 2004 (08.01.2004) CH

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): SYNGENTA PARTICIPATIONS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HALL, Roger, Graham [GB/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). TRAH, Stephan [DE/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). ZAMBACH, Werner [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). TULEJA, Juraj [SK/SK]; Synkola Consortium, Mlynska dolina, Areal pFUK, 84 215 Bratislava (SK).

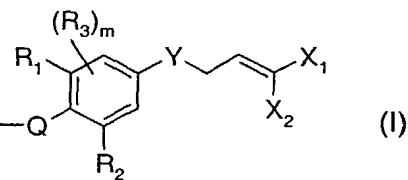
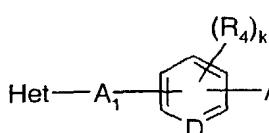
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
22 September 2005

[Continued on next page]

(54) Title: PESTICIDAL HETEROCYCLIC DIHALOALLYL COMPOUNDS



(57) Abstract: The invention relates to compounds of formula (I) wherein Het, A<sub>1</sub>, A<sub>2</sub>, A<sub>3</sub>, A<sub>4</sub>, D, W, T, Q, Y, X<sub>1</sub>, X<sub>2</sub>, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, k and m are as defined hereinabove, and, where applicable, to possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof, in each case in free form or in salt form, to a process for the preparation of and to the use of those compounds, E/Z isomers, mixtures of E/Z isomers and/or tautomers, to pesticidal compositions in which the active ingredient has been selected from those compounds, E/Z isomers, mixtures of E/Z isomers and/or tautomers, in each case in free form or in agrochemically usable salt form, to a process for the preparation of and to the use of those compositions, to plant propagation material treated with those compositions, to a method of controlling pests, to intermediates and, where applicable, to possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof, in each case in free form or in salt form, for the preparation of those compounds, E/Z isomers, mixtures of E/Z isomers and/or tautomers, and to a process for the preparation of and to the use of those intermediates and, where applicable, possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof.

WO 2005/068445 A3



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*